

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Heinz Willebrand *et al.*

Application No.: To be assigned

Filed: May 5, 2004

For: HYBRID WIRELESS OPTICAL  
AND RADIO FREQUENCY  
COMMUNICATION LINK


Group Art Unit: To be assigned

Examiner: To be assigned

**CERTIFICATE OF EXPRESS MAILING**

I hereby certify that this paper is being deposited with the United States Postal Service via Express Mail, Express Mail Label No.: EV 410721649 US, in an envelope addressed to: MAIL STOP PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this date.

May 5, 2004  
Date

  
Sara R. Hart

**INFORMATION DISCLOSURE STATEMENT**

**MAIL STOP PATENT APPLICATION**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This Information Disclosure Statement is submitted:

  X   Under 37 CFR §1.97(b) before the mailing date of a first Office Action on the merits.

       Under 37 CFR §1.97(c) together with either:  
       a statement under 37 CFR §1.97(e), or  
       a fee under 37 CFR §1.17(p)  
(after the 37 CFR §1.97(b) time period, but before the mailing date of a final Action, a Notice of Allowance, or an action that otherwise closes prosecution).

In accordance with the duty of disclosure imposed by 37 CFR § 1.56 to inform the Patent Office of all patents, publications, applications and other information known by Applicants or Applicants' representative that may be material to the examination of the subject application,

## Information Disclosure Statement

Applicants' representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 CFR §§ 1.97-1.98 and includes Form PTO-1449 with one hundred forty-nine (149) references listed as items AA-FS.

Copies of the items listed on the attached Form PTO-1449 are provided pursuant to 37 C.F.R. § 1.98 (a) (2), except that copies of those items which are marked with an "X" in the attached Form PTO-1449 are not supplied because they were previously cited by or submitted to the U.S. Patent Office in a prior Application No. 09/482,782, filed January 13, 2000, which is relied upon in this application for an earlier effective filing date under 35 U.S.C. § 120. See 37 C.F.R. § 1.98 (d).

### Concise Explanation of Relevance:

Item EJ is a "PCT International Search Report" issued over a PCT Patent Application which claims priority to U.S. Application No. 09/835,866, and which was mailed on July 30, 2002 from a foreign patent office. Item EJ refers to references (in relation to the PCT application for the '866 application) disclosed in Information Disclosure Statements previously submitted in U.S. Application No. 09/482,782.

Item EK is a "PCT International Preliminary Examination Report" issued over the PCT Patent Application which corresponds to U.S. Application 09/482,782 and which was mailed from a foreign patent office on April 29, 2002.

Item EM is a "PCT International Search Report" issued over a corresponding PCT Patent Application to U.S. Application No. 09/482,782 and which was mailed from a foreign patent office on February 6, 2002. It refers to references that have previously been made of record in U.S. Application No. 09/482,782.

Item EI listed on the Form PTO-1449 is not in the English language. It is a Search Report issued by the Hungarian Patent Office for a counterpart Hungarian application to U.S. Application No. 09/482,782, which cites item DR.

Items ED, EH, FB, FC and FI, listed on the Form PTO-1449, are not in the English language. An English-language translation of each of these items has been provided in Information Disclosure Statements previously submitted in U.S. Application No. 09/482,782, which is relied upon in this application for an earlier effective filing date under 35 U.S.C. § 120.

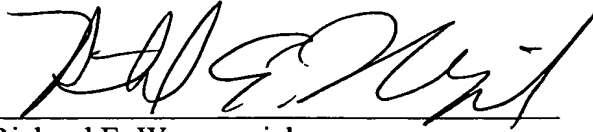
Information Disclosure Statement

It is requested that the information provided herein be made of record in this application.

Respectfully submitted,

Dated: \_\_\_\_\_

5/5/04



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<b>Form PTO-1449 (Modified)</b>  <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b>	Application No.	To be assigned
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U.S. PATENT DOCUMENTS									
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	U.S. PATENT DOCUMENT		NAME OF INVENTOR OR APPLICANT	DATE OF ISSUANCE OR PUBLICATION (MM-DD- YYYY)	CLASS	SUB CLASS	FILING DATE (if appropriate)
			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	AA	X	2002/0149811	A1	Willebrand	10/17/2002			04/16/2001
	AB	X	2002/0141020	A1	Doucet et al.	10/03/2002			05/28/2002
	AC	X	2002/0122232	A1	Doucet et al.	09/05/2002			01/22/2002
	AD	X	2002/0122230	A1	Izadpanah et al.	09/05/2002			03/05/2001
	AE	X	2002/0075542	A1	Kumar et al.	06/20/2002			12/17/2002
	AF	X	2002/0054413	A1	Shivnan	05/09/2002			09/07/2001
	AG	X	2002/0054411	A1	Heminger et al.	05/09/2002			08/27/2001
	AH	X	2002/0051269	A1	Margalit et al.	05/02/2002			09/28/2001
	AI	X	2002/0048066	A1	Antoniades et al.	04/25/2002			05/15/2001
	AJ	X	2002/0028043	A1	Medved et al.	03/07/2002			11/02/2001
	AK	X	2002/0027691	A1	Medved et al.	03/07/2002			11/02/2001
	AL	X	2002/0005972	A1	Bloom et al.	01/17/2002			05/16/2001
	AM	X	60/276,610		Shah et al.				03/16/2001
	AN	X	60/256,540		Gupta et al.				12/18/2000
	AO	X	6,587,687	B1	Wiedeman	07/01/2003			10/21/1996
	AP	X	6,583,904	B1	Mahlab et al.	06/24/2003			10/01/1999
	AQ	X	6,509,992	B1	Goodwill	01/21/2003			09/09/1999
	AR	X	6,493,121	B1	Althaus	12/10/2002			10/30/2000
	AS	X	6,462,847	B2	Willebrand	10/08/2002			03/29/2001
	AT	X	6,452,700	B1	Mays, Jr.	09/17/2002			06/19/2001

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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	AU	X	6,411,414	B1	Abate et al.	06/25/2002			11/19/1998
	AV	X	6,398,425	B2	Williams et al.	06/04/2002			05/09/2001
	AW	X	6,396,612	B1	Bjorndahl	05/28/2002			02/11/1998
	AX	X	6,381,055	B1	Javitt et al.	04/30/2002			04/16/1998
	AY	X	6,366,723	B1	Medved et al.	04/02/2002			09/14/1999
	AZ	X	6,348,986	B1	Doucet et al.	02/19/2002			06/29/1998
	BA	X	6,323,980	B1	Bloom	11/27/2001			03/05/1998
	BB	X	6,301,037	B1	Fischer et al.	10/09/2001			03/06/1998
	BC	X	6,288,813	B1	Kirkpatrick et al.	09/11/2001			03/25/1998
	BD	X	6,285,481	B1	Palmer	09/04/2001			09/05/1997
	BE	X	6,272,271	B1	Wojnarowski et al.	08/07/2001			04/29/1999
	BF	X	6,239,888	B1	Willebrand	05/29/2001			04/24/1998
	BG	X	6,141,128		Korevaar et al.	10/31/2000			12/15/1997
	BH	X	6,122,084		Britz et al.	09/19/2000			03/03/1998
	BI	X	6,115,157		Barnard et al.	09/05/2000			12/24/1997
	BJ	X	6,104,513		Bloom	08/15/2000			03/05/1998
	BK	X	6,049,593		Acampora	04/11/2000			12/19/1997
	BL	X	6,043,918		Bozzay et al.	03/28/2000			12/12/1997
	BM	X	6,016,212		Durant et al.	10/18/2000			04/30/1997
	BN	X	6,014,236		Flaherty	01/11/2000			02/04/1997

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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	BO	X	5,995,253		Flaherty	11/30/1999			02/04/1997
	BP	X	5,983,068		Tomich et al.	11/09/1999			02/29/1996
	BQ	X	5,978,118		Flaherty	11/02/1999			02/04/1997
	BR	X	5,966,229		Dodley et al.	10/12/1999			06/18/1997
	BS	X	5,949,564		Wake	09/07/1999			04/26/1993
	BT	X	5,949,563		Takada	09/07/1999			07/18/1997
	BU	X	5,946,120		Chen	08/31/1999			05/30/1997
	BV	X	5,936,578		Driessen et al.	08/10/1999			12/29/1995
	BW	X	5,917,629		Hortensius et al.	06/29/1999			10/29/1990
	BX	X	5,883,730		Coult et al.	03/16/1999			12/29/1995
	BY	X	5,859,725		Sugiya et al.	01/12/1999			08/22/1997
	BZ	X	5,844,705		Rutledge	12/01/1998			02/13/1997
	CA	X	5,838,470		Radehaus et al.	11/17/1998			06/04/1997
	CB	X	5,818,984		Ahmad et al.	10/06/1998			11/18/1996
	CC	X	5,818,619		Medved et al.	10/06/1998			06/13/1996
	CD	X	5,790,286		Bae	08/04/1998			10/28/1996
	CE	X	5,786,923		Doucet et al.	07/28/1998			03/29/1996
	CF	X	5,777,768		Korevaar	07/07/1998			08/29/1996
	CG	X	5,748,813		Cassidy et al.	05/05/1998			07/28/1993
	CH	X	Re. 35,736		Powell	02/24/1998			11/23/1994
	CI	X	5,710,652		Bloom et al.	01/20/1998			02/22/1994

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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	CJ	X	5,661,582		Kintis et al.	08/26/1997			10/26/1995
	CK	X	5,659,413		Carlson	08/19/1997			02/28/1995
	CL	X	5,654,816		Fishman	08/05/1997			06/06/1996
	CM	X	5,596,661		Henry et al.	01/21/1997			12/28/1994
	CN	X	5,587,830		Chraplyvy et al.	12/24/1996			05/28/1993
	CO	X	5,585,953		Zavrel	12/17/1996			08/13/1993
	CP	X	5,574,589		Feuer et al.	11/12/1996			01/09/1995
	CQ	X	5,548,772		Lin et al.	08/20/1996			10/14/1994
	CR	X	5,526,161		Suzuki et al.	06/11/1996			06/20/1994
	CS	X	5,475,520		Wissinger	12/12/1995			06/22/1994
	CT	X	5,457,562		Tremblay	10/10/1995			05/20/1994
	CU	X	5,452,124		Baker	09/19/1995			03/04/1994
	CV	X	5,448,391		Iriyama et al.	09/05/1995			06/29/1993
	CW	X	5,443,227		Hsu	08/22/1995			10/15/1993
	CX	X	5,416,864		Cassidy et al.	05/16/1995			04/30/1993
	CY	X	5,416,861		Koh et al.	05/16/1995			04/29/1994
	CZ	X	5,416,627		Wilmoth	05/16/1995			04/24/1992
	DA	X	5,400,166		Huber	03/21/1995			10/20/1992
	DB	X	5,390,040		Mayeux	02/14/1995			02/04/1994
	DC	X	5,371,734		Fischer	12/06/1994			01/29/1993
	DD	X	5,331,449		Hubert et al.	07/19/1994			03/15/1993

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U.S. PATENT DOCUMENTS									
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			PATENT, PUB., OR APP. NO.	KIND CODE (if known)					
	DE	X	5,329,576		Handforth	07/12/1994			04/29/1992
	DF	X	5,321,718		Waarts et al.	06/14/1994			01/28/1993
	DG	X	5,301,054		Huber et al.	04/04/1994			01/14/1993
	DH	X	5,280,184		Jokerst et al.	01/18/1994			04/08/1992
	DI	X	5,247,381		Olmstead et al.	09/21/1993			05/20/1992
	DJ	X	5,227,906		Tokumitsu	07/13/1993			03/08/1990
	DK	X	5,218,467		Ross et al.	06/08/1993			12/28/1990
	DL	X	5,210,631		Huber et al.	05/11/1993			12/22/1989
	DM	X	5,185,814		Healey	02/09/1993			02/20/1992
	DN	X	5,142,400		Solinsky	08/25/1992			05/28/1991
	DO	X	5,083,874		Aida et al.	01/28/1992			04/10/1990
	DP	X	5,068,916		Harrison et al.	11/26/1991			10/29/1990
	DQ	X	5,060,303		Wilmoth	10/22/1991			09/06/1988
	DR	X	5,034,997		Iwasaki	07/23/1991			04/18/1989
	DS	X	5,005,937		Aida et al.	04/09/1991			04/10/1990
	DT	X	4,916,460		Powell	04/10/1990			09/29/1988
	DU	X	4,807,222		Amitay	02/21/1989			08/25/1986
	DV	X	4,689,482		Horikawa et al.	08/25/1987			06/13/1985
	DW	X	4,330,870		Arends	05/18/1982			09/05/1980



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FOREIGN PATENT DOCUMENTS										
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	FOREIGN PATENT DOCUMENT			DATE OF PUBLICATION (MM-DD-YYYY)	CLASS	SUB CLASS	TRANSLATION	
			COUNTRY OR OFFICE (two-letter code)	DOCUMENT NO.	KIND CODE (if known)				YES	NO
	DX	X	WO	01/52450	A2	07/19/2001				
	DY	X	WO	00/54413		09/14/2000				
	DZ	X	WO	00/16489		03/23/2000				
	EA	X	WO	00/08783		02/17/2000				
	EB	X	WO	98/32250		07/23/1998				
	EC	X	EP	0 378 148	B1	04/10/1996				
	ED	X	DE	44 33 896	C1	11/09/1995			X	
	EE	X	GB	2 257 321	A	01/06/1993				
	EF	X	EP	0 513 993	A2	11/19/1992				
	EG	X	GB	2 221 810	A	02/14/1990				
	EH	X	JP	S63-215125		07/07/1988			X	

OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS			
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and-or country where published.
	EI	X	HUNGARIAN PATENT OFFICE, Search Report for Hungarian National Phase of PCT/US00/35198, which claims priority to U.S. App. 09/482,782; dated 15 January 2003; pp. 1-3.
	EJ	X	PCT INTERNATIONAL SEARCH AUTHORITY; "Notification of Transmittal of the International Search Report"; "PCT International Search Report" for International Application No. PCT/US02/10075 which claims priority to U.S. Application No. 09/835,866; mailed 30 July 2002; (4 pages).

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	EK	X	PCT INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY; "Notification of Transmittal of the International Preliminary Examination Report"; "PCT International Preliminary Examination Report" for International Application No. PCT/US00/35198 which corresponds to U.S. Application No. 09/482,782; mailed 29 April 2002; (13 pages).
	EL	X	EUROPEAN PATENT OFFICE; PCT International Preliminary Examination Report issued in the counterpart PCT application for U.S. Application No. 09/482,782; date of mailing 29 April 2002; (13 pages).
	EM	X	PCT INTERNATIONAL SEARCH AUTHORITY; "Notification of Transmittal of the International Search Report"; "PCT International Search Report" for International Application No. PCT/US00/35198 which corresponds to U.S. Application No. 09/482,782; mailed 06 February 2002; (7 pages).
	EN	X	NASA JET PROPULSION LABORATORY; "Multiple-Beam Transmission for Optical Communication"; <a href="http://www.nasatech.com/Briefs/Nov98/NPO20384.html">http://www.nasatech.com/Briefs/Nov98/NPO20384.html</a> ; October 26, 2001; pp. 1-2.
	EO	X	G. NYKOLAK et al.; "A 40 Gb/s DWDM Free Space Optical Transmission Link Over 4.4 km"; In Free-Space Laser Communication Technologies XII; <i>Proceedings of SPIE</i> ; Vol. 3932; 2000; pp. 16-20.
	EP	X	P. F. SZAJOWSKI et al.; "Key Elements of High-Speed WDM Terrestrial Free-Space Optical Communications Systems"; In Free-Space Laser Communication Technologies XII; <i>Proceedings of SPIE</i> ; Vol. 3932; 2000; pp. 2-14.
	EQ	X	G. NYKOLAK et al.; "Update on 4x2.5 Gb/s, 4.4km free-space optical communications link: availability and scintillation performance; Part of the SPIE Conference on Optical Wireless Communications II; <i>SPIE</i> ; Vol. 3850; September 1999; pp. 11-19.
	ER	X	P. F. SZAJOWSKI et al.; "High Power Optical Amplifiers Enable 1550 nm Terrestrial Free-Space Optical Data-Links Operating @ WDM 2.5 Gb/s Data Rates"; Part of the SPIE Conference on Optical Wireless Communications II; <i>SPIE</i> ; Vol. 3850; September 1999; pp. 2-10.
	ES	X	P. S. GUILFOYLE et al.; "Free-Space Interconnects for High-Performance Optoelectronic Switching"; <i>Computer, IEEE</i> ; February 1998; pp. 66-75.

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	ET	X	S. HOLLUNG et al.; A Bi-Directional Quasi-Optical Lens Amplifier; <i>IEEE Transactions on Microwave Theory and Techniques</i> ; Vol. 45, No. 12; December 1997; pp. 2352-2357.
	EU	X	I. I. KIM et al.; Scintillation Reduction Using Multiple Transmitters"; <i>Society of Photo-Optical Instrumentation Engineers</i> ; Vol. 2990; 1997; pp. 102-113.
	EV	X	A. LOURI et al.; "Feasibility Study for a Scalable Optical Interconnection Network for Massively Parallel Processing Systems"; <i>Applied Optics</i> ; Vol. 35; No. 8; March 10, 1996; pp. 1296-1308.
	EW	X	SCHUSTER et al., "Optomechanical Design of STRV-2 Lasercom Transceiver Using Novel Azimuth/slant gimbal"; <i>SPIE - the International Society for Optical Engineering</i> ; Society of Photo-Optical Instrumentation Engineers, Washington, USA; Vol. 2699; January 30-31, 1996, pgs. 227-239.
	EX	X	WILSON et al., "Preliminary Results of the Ground/Orbiter Lasercomm Demonstration Experiment Between Table Mountain and the ETS-VI Satellite"; <i>SPIE - the International Society for Optical Engineering</i> ; Vol. 2699; Society of Photo-Optical Instrumentation Engineers, Washington, USA; 1996; pp. 121-132.
	EY	X	A. BELMONTE et al.; "Performance of a Multiple-Aperture Optical System"; <i>Society of Photo-Optical Instrumentation Engineer</i> ; Vol. 2699; 1996; pp. 316-326.
	EZ	X	K. KIMURA et al.; "Global Satellite communication network using double-layered inclined orbit constellation with optical inter-satellite links"; ATR Optical and Radio Communications Research Laboratories, Kyoto, Japan; <i>SPIE</i> ; Vol. 2699; 1996; pp. 12-23.
	FA	X	C. M. STICKLEY et al.; "Demonstration of an Adaptive, Coherent-Combining Laser Radar Receiver"; <i>18<sup>th</sup> International Laser Radar Conference</i> ; 1996; pp. 247-250.
	FB	X	KUBE; "Renaissance Eines Alten Konzepts"; <i>Nachrichten Elektronik und Telematik</i> ; Vol. 49; No. 5; May 1995; pp. 15, 16 and 18. (English translation provided.)
	FC	X	TELECONNECT GmbH; "Optische Freiraum-Übertragungssysteme"; Teleconnect Verbindungen in die Zukunft; Produktinformation; April 1995; pp. 1-16. (English translation provided.)

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	First Named Inventor	Heinz Willebrand <i>et al.</i>
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OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS			
EXAMINER INITIALS*	CITE NO.	COPY NOT ENCLOSED PER 37 CFR § 1.98(d)	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and-or country where published.
	FD	X	CBL - Communication by Light, Gesellschaft für optische Kommunikationssysteme mbH; "Optical Links, Network connection directly through the atmosphere"; March 1995; pp. 1-8.
	FE	X	K. KIMURA et al.; "Satellite constellation of low earth orbit (LEO) satellite global communication network using optical inter-satellite links"; ATR Optical and Radio Communications Research Laboratories, Kyoto, Japan; <i>SPIE</i> ; Vol. 2381; 1995; pp. 48-59.
	FF	X	E. KOREVAAR et al.; "Design of satellite terminal for BMDO lasercom technology demonstration"; <i>Society of Photo-Optical Instrumentation Engineers</i> ; Vol. 2381; February 7-8, 1995, pp. 59-71.
	FG	X	LIGHTPOINTE COMMUNICATIONS, INC.; "Complex Networking Connectivity Example: Allianz Insurance Germany"; 1995; p. 1.
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	FI	X	G. TURINSKY; "Kabellose Übertragung von Digital-Audio- und Videosignalen"; Praxis; <i>RFE</i> ; March 1994; pp. 33-34. (English translation provided.)
	FJ	X	K. H. KUDIELKA et al.; "Experimental verification of an adaptive optical multi-aperture receive antenna for laser space communications"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 2123; 1994; pp. 478-486.
	FK	X	C. A. BRACKETT et al; "A Scalable Multiwavelength Multihop Optical Network: A Proposal for Research on All-Optical Networks"; <i>Journal of Lightwave Technology</i> , Vol. 11, No. 5-6; May-June 1993; pp. 736-753.
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	FM	X	KOREVAAR et al., Status of SDIO/IS&T Lasercom Testbed Program, <i>SPIE-The International Society for Optical Engineering</i> ; Society of Photo-Optical Instrumentation Engineers, Washington, USA; Vol. 1866; January 20-21, 1993; pp. 116-127.
	FN	X	TELECONNECT GmbH; "Installation Mittweida 1993" (digitized photograph copies); 1993; pp. 1-2.

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	FO	X	J. H. CHURNSIDE: "Aperture Averaging of Optical Scintillations in the Turbulent Atmosphere"; <i>Applied Optics</i> , Vol. 30, No. 15; May 20, 1991; pp. 1982-1994.
	FP	X	W. M. BRUNO et al.; "Diode Laser Spatial Diversity Transmitter"; <i>Society of Photo-Optical Instrumentation Engineers</i> , Vol. 1044; 1989; pp. 187-194.
	FQ	X	J. SHAMIR et al.; "Diversity Methods for Fading Control"; <i>Applied Optics</i> ; Vol. 27, No. 8; April 15, 1988; pp. 1389-1391.
	FR	X	A. S. ACAMPORA; "A Multichannel Multihop Local Lightwave Network"; GLOBECOM '87; <i>IEEE</i> ; 1987; pp. 1459-1467.
	FS	X	D. L. FRIED; "Aperture Averaging of Scintillation"; <i>Journal of the Optical Society of America</i> , Vol. 57, No. 2; February 1967; pp. 169-175.

Examiner Signature		Date Considered	
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